

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

#7

1/7

GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCCATGGACAGGGCCCCACAGAGACACCACCGGACAT
CTCGGGAGCTGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTGATCCCTTGCAAGATCTGTGG
GGACAAGTCATCTGGGATCCACTACGGGGTTATCACCTGTGAGGGGTGCAAGGGCTTCTTCGCCGCGAGC
CAGCAGTGTAATGTGGCCTACTCCTGCACGCGTCAGCAGAACTGCCCCATTGACCGAACCAGCCGCAACC
GATGCCAGCATTGCCGCTGCAGAAAGTGCTGGCTCTGGGCATGTCCCGAGATGCTGTCAAGTTTGGCCG
AATGTCCAAGAAGCAGAGGGACAGTCTACATGCAGAAAGTGCAAAACAACTGCAACAGCAGCAGCAACAG
GAACAAGTGGCCAAGACTCCTCCAGCTGGGAGCCGCGGAGCAGACACACTTACATACACTTTAGGGCTCT
CAGATGGGCAGCTACCACTGGGCGCCTCACCTGACCTACCCGAGGCCTCTGCTTGTCCCCCTGGCCTCCT
GAGAGCCTCAGGCTCTGGCCCACCATATTCCAATACCTTGGCCAAAACAGAGGTCCAGGGGGCCTCCTGC
CACCTTGAGTATAGTCCAGAACGAGGCAAAGCTGAAGGCAGAGACAGCATCTATAGCACTGACGGCCAAC
TTACTCTTGGAAGATGTGGACTTCGTTTTGAGGAAACCAGGCATCCTGAACTTGGGGAACCAGAACAGGG
TCCAGACAGCCACTGCATTCCCAGTTTCTGCAGTGCCCCAGAGGTACCATATGCCTCTCTGACAGACATA
GAGTACCTGGTACAGAATGTCTGCAAGTCCTTCCGAGAGACATGCCAGCTGCGACTGGAGGACCTTCTAC
GGCAGCGCACCAACCTCTTTTACGGGAGGAGGTGACCAGCTACCAGAGGAAGTCAATGTGGGAGATGTG
GGAGCGCTGTGCCCCACCACCTCACTGAGGCCATTAGTATGTGGTGGAGTTTGCCAAGCGGCTTTCAGGC
TTCATGGAGCTCTGCCAGAATGACCAGATCATACTACTGACAGCAGGAGCAATGGAAGTCGTCTAGTCA
GAATGTGCAGGGCCTACAATGCCAACCAACACACAGTCTTTTTTTGAAGGCAAATACGGTGGTGTGGAGCT
GTTTCGAGCCTTGGGCTGCAGCGAGCTCATCAGCTCCATATTTGACTTTTCCCACTTCTCAGCGCCCTG
TGTTTTCTGAGGATGAGATTGCCCTCTACACGGCCCTGGTTCTCATCAATGCCAACCGTCTCTGGGCTCC
AAGAGAAGAGGAGAGTGGAACATCTGCAATACAATTTGGAAGTGGCTTTCCATCATCATCTCTGCAAGAC
TCATCGACAAGGCCTCCTAGCCAAGCTGCCACCCAAAGGAAAACCTCCGGAGCCTGTGCAGCCAACATGTG
GAAAAGCTGCAGATCTTCCAGCACCTCCACCCCATCGTGGTCCAAGCCGCCTTCCCNCCACTCTATAAGG
AACTCTTCAGCACTGATGTTGAATCCCCTGAGGGGCTGTCAAAGTGATCTGGAGGAAGGACAACTTTCTA
TTTCCTTCAGCCCTCTGACCCGTCTCCCTGGACTCCCTTACCCAGCCTTTCCCTTTCTGCACTCTATGA
AGGGTGGTATCCCTAGGAGTAAGCAAATCCTAAGACTGATTTTCTGCCCCTAGGCTTGCTTGTAGGACA
ACAGCAGCAAGTGATGGAGAAAAGGCTTGTTATGTTTGATTTCCCATAAAGTTCCACCCTGGCTTCTGGAA
GCTGTGGGGTAGATGGGATAGAGATAGGATGACCAAGTCAAATAAAAAACAGACTGACAATCAGCAGGGA
TAAATCCAGGTACCTGGGATAAGGAGAACTCAAATCTAGGCTTGAAAGCTAATAACAGTCCTTTCAATAC
CTCATTGTATTTCCCCATGGGTCTCCTGGGGGGACATGGATCTAGCTCAGAGACTGGTGGCAAGCCCCC
AGAAGGACCTGTATATAATAAGAATATAGATTCTG (SEQ ID NO:1)

MDRAPQRHRTSRELLAAKKTHTSQIEVIPCKICGDKSSGIHYGVITCEGCKGFFRRSQCN
VAYSCTRQONCPIDRTSRNRCQHCRLLQKCLALGMSRDAVKFGRMSKKQRDSLHAEVQKQ
LQQQQQQEQVAKTPPAGSRGADTLTYTLGLSDGQLPLGASPDLPASACPPGLLRASGSGPP
YSNTLAKTEVQGASCHLEYSPEERGKAEGRDSIYSTDGQLTLGRCGLRFEETRHPPELGEPEQG
PDSHCIPFCSAPEVPYASLTDIEYLVQNVCKSFRETCQLRLEDLLRQRTNLFSSREEVTSYQR
KSMWEMWERCAHHLTEAIQYVVEFAKRLSGFMELCQNDQIILLTAGAMEVVLVRMCRA
NANNHTVFFEGKYGGVELFRALGCELISSIFDFSHFLSALCFSEDEIALYALVLINANRPL
QEKRRVEHLQYNLELAFHHHLCKTHRQGLLAKLPKGLRSLCSQHVLEKLQIFQHLPIVV
QAAFPLYKELFSTDVESPEGLSK (SEQ ID NO:2)

FIGURE 1

2025-01-01 09:54:00

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

2/7

underlined = deleted in targeting construct

[] = sequence flanking Neo insert in targeting construct

GGAGGGCAGCAAGGACGGCACCAAGGGAGCTACCCCATGGACAGGGCCCCACAGAGACAC
 CACCGGACATCTCGGGAGCTGCTGGCTGCAAAGAAGACCCACACCTCACAAATTGAAGTG
 ATCCCTTGCAAGATCTGTGGGGACAAGTCATCTGGGATCCACTACGGGGTTATCACCTGT
 GAGGGGTGCAAG [GGCTTCTTCCGCCGACCCAGCAGTGTAATGTGGCCTACTCCTGCACG
 CGTCAGCAGAA] CTGCCCCATTGACCGAACCAGCCGCAACCGATGCCAGCATTGCCCGCCTG
CAGAAGTGCTGGCTCTGGGCATGTCCCGAGATGCTGTCAAGTTTGGCCGAATGTCCAAG
AAGCAGAGGGACAGTCTACATGCAGAAAGTGCAAAAACACTGCAACAGCAGCAGCAACAG
GAACAAGTGGCCAAGACTCCTCCAGCTGGGAGCCGCGGAGCAGACACACTTA [CATACACT
 TTAGGGCTCTCAGATGGGCAGCTACCACTGGGCGCCTCACCTGACCTACCCGAGGCCTCT
 GCTTGTCCCCCTGGCCTCCTGAGAGCCTCAGGCTCTGGCCACCATATTCCAATACCTTG
 GCCAAAACAGAGGTCCAGGGGGCCTCCTGCCACCTTGAGTATAGTCCAGAACGAGGCAAA
 GCTGAAGGCAGAGACAGCATCTATAGCACTGACGGCCAACCTACTCTTGGAAGATGTGGA
 CTTTCGTTTTGAGGAAACCAGGCATCCTGAACTTGGGGAACCAGAACAGGGTCCAGACAGC
 CACTGCATTCCCAGTTTCTGCAGTGCCCCAGAGGTACCATATGCCTCTCTGACAGACATA
 G] AGTACCTGGTACAGAATGTCTGCAAGTCCTTCCGAGAGACATGCCAGCTGCGACTGGAG
 GACCTTCTACGGCAGCGCACCAACCTCTTTTCACGGGAGGAGGTGACCAGCTACCAGAGG
 AAGTCAATGTGGGAGATGTGGGAGCGCTGTGCCCACCACCTCACTGAGGCCATTTCAGTAT
 GTGGTGGAGTTTGCCAAGCGGCTTTCAGGCTTCATGGAGCTCTGCCAGAATGACCAGATC
 ATACTACTGACAGCAGGAGCAATGGAAGTCGTCTAGTCAGAATGTGCAGGGCCTACAAT
 GCCAACAACCACACAGTCTTTTTTGAAGGCAAATACGGTGGTGTGGAGCTGTTTCGAGCC
 TTGGGCTGCAGCGAGCTCATCAGCTCCATATTTGACTTTTCCCACTTCCTCAGCGCCCTG
 TGTTTTTCTGAGGATGAGATTGCCCTCTACACGGCCCTGTTTCTCATCAATGCCAACCGT
 CCTGGGCTCCAAGAGAAGAGGAGAGTGGAACATCTGCAATAACAATTTGGAACCTGGCTTTC
 CATCATCATCTCTGCAAGACTCATCGACAAGGCCTCCTAGCCAAGCTGCCACCCAAAGGA
 AAATCCGGAGCCTGTGCAGCCAACATGTGGAAAAGCTGCAGATCTTCCAGCACCTCCAC
 CCCATCGTGGTCCAAGCCGCTTCCCNCCACTCTATAAGGAACTCTTCAGCACTGATGTT
 GAATCCCCTGAGGGGCTGTCAAAGTGATCTGGAGGAAGGACAACCTTCTATTTCCCTTCAG
 CCCTCTGACCCGTCTCCCTGGACTCCCTTCACCCAGCCTTTCCCTTTCTGCACTCTATGA
 AGGGTGGTATCCCTAGGAGTAAGCAAATCCTAAGACTGATTTTCTGCCCCTAGGCTTGCC
 TTGTAGGACAACAGCAGCAAGTGATGGAGAAAAGGCTTGTTATGTTTGATTTCCCATAG
 TTCCACCCTGGCTTCTGGAAGCTGTGGGGTAGATGGGATAGAGATAGGATGACCAAGTCA
 AATAAAAAACAGACTGACAATCAGCAGGGATAAATCCAGGTACCTGGGATAAGGAGAACT
 CAAATCTAGGCTTGAAAGCTAATAACAGTCCTTTCAATACCTCATTGTATTTCCCCATGG
 GTCCTCCTGGGGGGACATGGATCTAGCTCAGAGACTGGTGGCAAGCCCCCAGAAGGACCT
 GTATATAATAAGAATATAGATTCTCTG (SEQ ID NO:1)

FIGURE 2A

09895840 " 012902

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

3/7

Gene Sequence
Structure *

252 bp

Sequence Deleted

472 bp

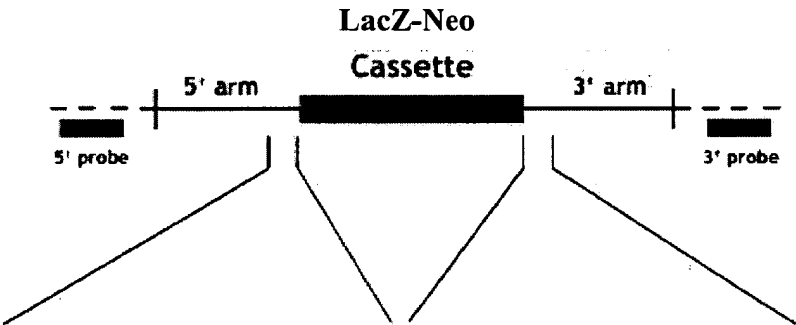
Size of full-length
cDNA: 2066 bp



Targeting Vector*
(genomic sequence)

Construct Number: 651

Arm Length:
5': 1.6 kb
3': 2.5 kb



———— Targeting Vector
- - - - - Endogenous Locus

* Not drawn to scale

<p>5' >CAGGGTCCATCACAATTATAC AGTGGAGGTTTCGGGGACTTTGGTG GATGTAGAAATTCTTGAGACCAGT GCACATGAATTGGAGGTCCCTGGG ACCACCTCAAACCTCCGAGAGGGTG GGATAAGCAGTTTCTGTTTCCCAG GGCTTCTTCCGCCGAGCCAGCAG TGTAATGTGGCCTACTCCTGCACG CGTCAGCAGAA<3' (SEQ ID NO:3)</p>	<p>5' >CATACACTTTAGGGCTCTCAG ATGGGCAGCTACCACTGGGCGCCT CACCTGACCTACCCGAGGCCTCTG CTTGTCCCCCTGGCCTCCTGAGAG CCTCAGGCTCTGGCCCACCATATT CCAATACCTTGGCCAAAACAGAGG TCCAGGGGGCCTCCTGCCACCTTG AGTATAGTCCAGAACGAGGCAAAG CTGAAGGCAGA<3' (SEQ ID NO:4)</p>
---	--

FIGURE 2B

APPROVED	O.G. FIG.	
BY	CLASS	SUBCLASS
DRAFTSMAN		

4/7

necropsy - spleen weight/body weight

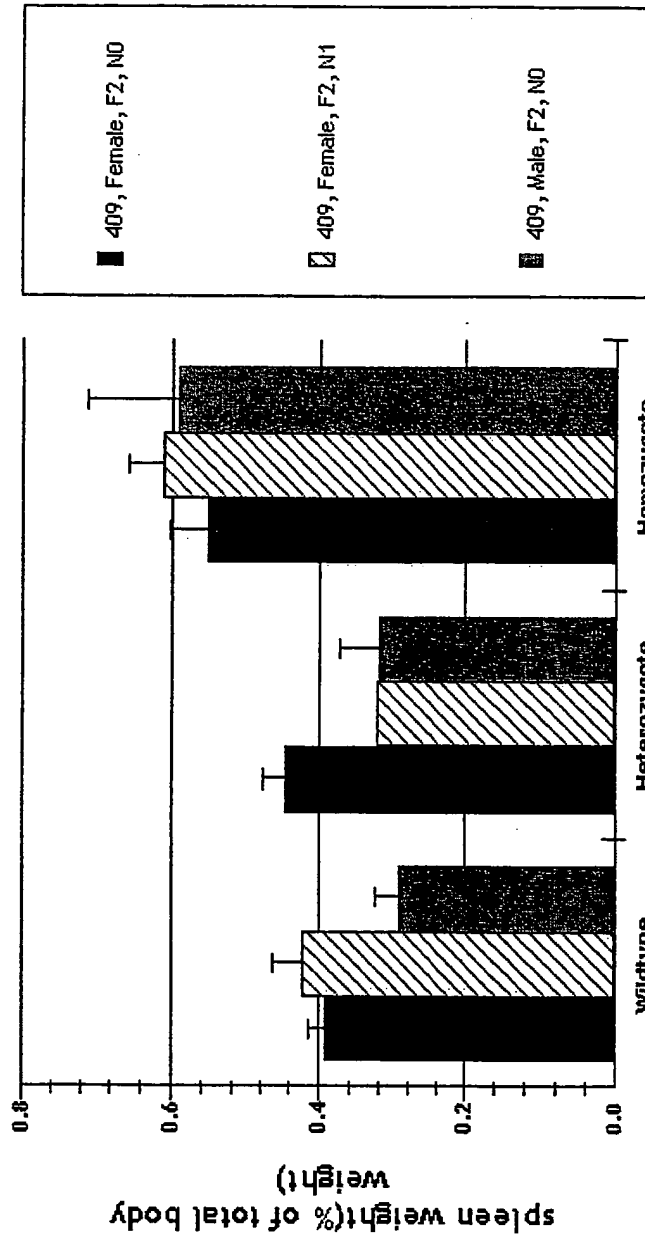


FIG. 3

5/7

necropsy - liver weight/body weight

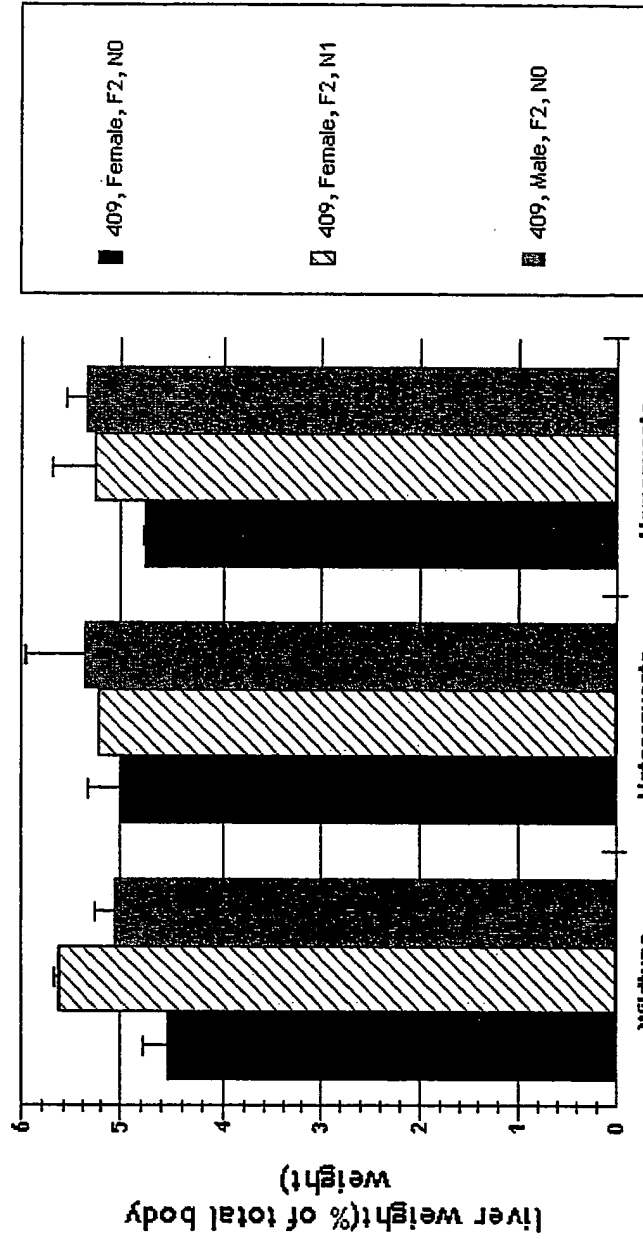


FIG. 4

6/7

necropsy - kidney weight/body weight

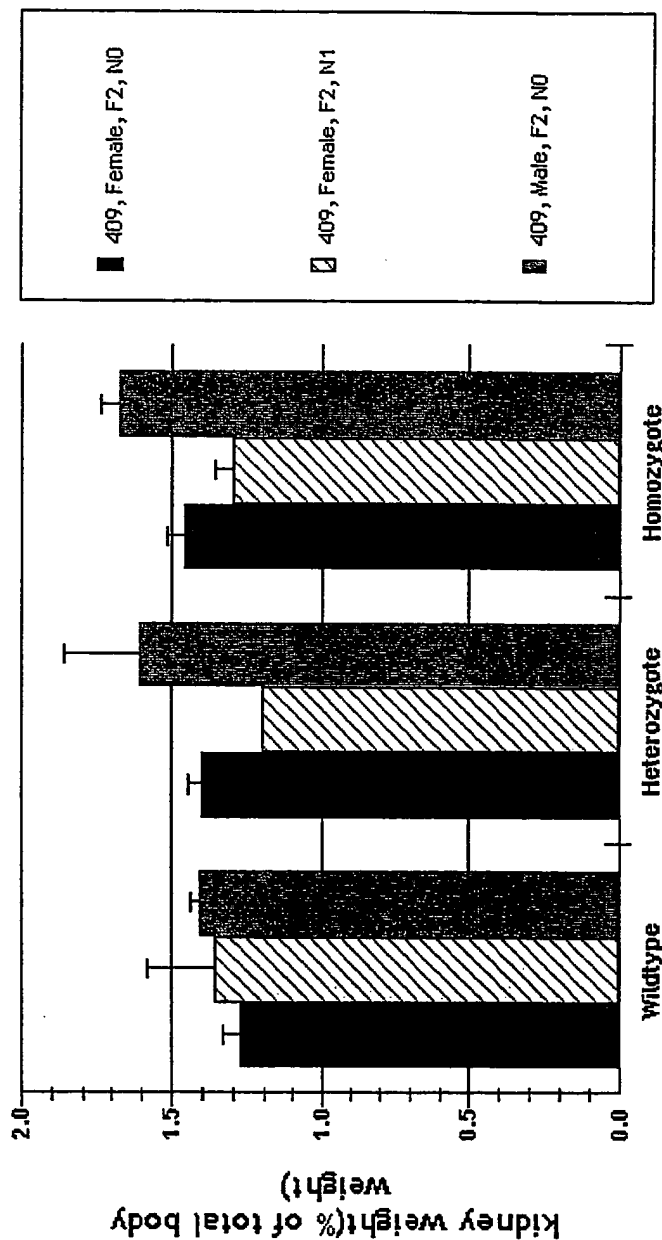


FIG. 5

necropsy - thymus weight/body weight

